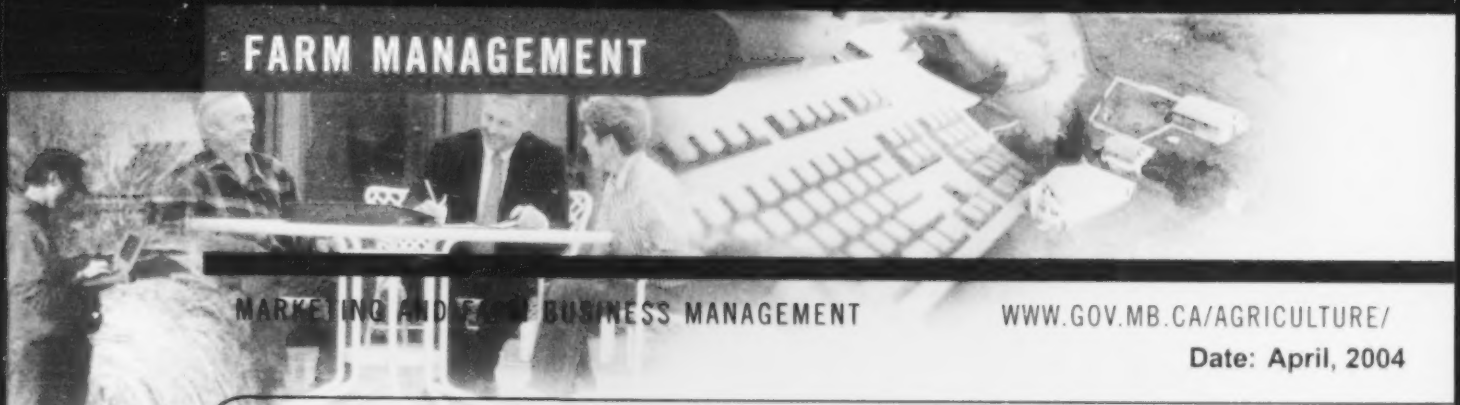

Date: April, 2004

Guidelines For Estimating

Swine Farrow-Finish Costs

Based On 300 Sows and 6,039 Pigs Sold

This publication is intended to provide a format and a set of guidelines for determining the cost of production for a swine enterprise. Adjustments will be necessary when applying these figures to your enterprise.

The assumptions on which the costs are based are outlined in the supporting pages. These assumptions were arrived at using the breeding stock, management practices, and facilities seen in modern, well managed swine operations of comparable size in Manitoba. Productivity and performance assumptions are based on information collected by department specialists, feed companies and other organizations. Where individual herd productivity and performance levels differ from those listed adjustments will be required.

The guideline can be useful for comparison purposes. Comparison of costs at different levels of production can be made with other farms, the farm over a period of time or comparing the plan with the actual results at the end of the planning period.

Disclaimer: This budget is only a guide and is not intended as an in depth study of the cost of production of this industry. Interpretation and utilization of this information is the responsibility of the user. If you require assistance with developing your individual budget, please contact your local Manitoba Agriculture, Food and Rural Initiatives office.

Manitoba Agriculture and Food is Committed to
Your Future in Farming

Manitoba
Building for the Future

Farrow-Finish Pig Cost of Production

The following farrow-finish budget is based on the assumption that **creep and starter rations are purchased, all others are home mixed**. The budget assumes a land investment cost based on 160 acres, which would be required for this size operation, with 140 acres rented out at $25 per acre.

The budget includes an assumption that 1.5% of the market pigs are sold as lightweight pigs. It is assumed that when the lightweight pigs are sold, they will have a salvage value. Therefore, total marketings are reduced by only 1% to compensate for the lightweight pigs.

The budget includes an assumption that this particular operation is "all-in, all-out" by room. Space allocations for finishing pigs are in accordance with the Recommended Code of Practice for the Care and Handling of Farm Animals: Pigs.

The rations illustrated in this budget are examples only. Individual farm conditions should be taken into account when formulating the diets. Producers need to know the feed intakes of their animals. Please consult with a nutritionist for diet information and suggestions.

The Manitoba pork production industry profile is changing and this budget was specifically designed to address the need of producers who may want to analyze the cost of production for a farrow to finish operation. Several companies are offering contracts with varying levels of guarantees. Producers need to accurately calculate their costs before they can properly make a decision.

300 Sow Farrow-Finish Cost of Production Summary

April, 2004

	$/Pig Sold	$/Sow /Year	Total Cost	Your Cost
A. Operating Costs				
1. Feed Costs:				
1.01 Sow Lactation	$3.32	$66.83	$20,049	
1.02 Sow Gestation	$7.98	$160.64	$48,191	
1.03 Boar Ration	$0.44	$8.79	$2,638	
1.04 Pre Starter 1	$2.33	$46.95	$14,085	
1.05 Pre Starter 2	$3.85	$77.47	$23,240	
1.06 Starter 1	$4.53	$91.11	$27,334	
1.07 Starter 2	$6.04	$121.67	$36,502	
1.08 Grower 1	$15.54	$312.90	$93,870	
1.09 Grower 2	$17.67	$355.72	$106,717	
1.10 Finisher	$19.55	$393.46	$118,039	
Total Feed Cost	**$81.25**	**$1,635.55**	**$490,666**	
2. Other Operating Costs:				
2.01 Veterinary Medicine & Supplies	$2.68	$53.96	$16,187	
2.02 Maintenance & Repairs	$1.18	$23.84	$7,153	
2.03 Hydro & Propane	$3.24	$65.19	$19,558	
2.04 Insurance	$2.72	$54.83	$16,450	
2.05 Manure Costs	$3.11	$62.62	$18,787	
2.06 Office Supplies	$0.10	$2.00	$600	
2.07 Marketing & Transport.	$3.89	$78.31	$23,492	
2.08 Sow Replacement	$3.95	$79.52	$23,856	
2.09 Boar Replacement	$1.07	$21.63	$6,488	
2.10 Property Tax	$1.16	$23.33	$7,000	
Subtotal Operating Costs	$104.36	$2,100.79	$630,236	
2.11 Interest on Operating Costs	$1.56	$31.43	$9,428	
Total Operating Costs	**$105.92**	**$2,132.21**	**$639,664**	
B. Fixed Costs				
3. Depreciation:				
3.01 Buildings & Manure Storage	$4.66	$93.74	$28,122	
3.02 Equipment	$9.07	$182.59	$54,778	
Total Depreciation Cost	**$13.73**	**$276.33**	**$82,900**	
4. Investment:				
4.01 Land cost	$0.26	$5.33	$1,600	
4.02 Buildings & Manure Storage	$2.60	$52.28	$15,683	
4.03 Equipment	$2.22	$44.63	$13,390	
4.04 Breeding Herd	$0.79	$16.00	$4,800	
Total Investment Cost	**$5.87**	**$118.25**	**$35,474**	
Total Fixed Costs	**$19.60**	**$394.58**	**$118,374**	
C. Labour				
90 hours/week farrow wean	$9.30	$187.20	$56,160	
45 hours/week grower finish	$4.65	$93.60	$28,080	
Total Labour Cost	**$13.95**	**$280.80**	**$84,240**	
Total Cost of Production	**$139.47**	**$2,807.59**	**$842,277**	
Break-Even Price (carcass) [1]	**$/100 kg**	**$/CWT**		
Operating Cost	$106.52	$48.32		
Operating & Labour Cost	$120.55	$54.68		
Operating, Labour & Fixed Cost	$140.26	$63.62		

[1] FOOTNOTE: Break-even Price = Cost per Hog Sold + (Slaughter Weight X Dressing Percentage X Index)

Disclaimer: This budget is only a guide and is not intended as an in depth study of the cost of production of this industry. Interpretation and utilization of this information is the responsibility of the user.

Farrow - Finish Pig Production Costs

1 This input table outlines the cost of production for a farrow finish operation.
2 Buildings and equipment are valued at new cost.
3 Purchased feed is used for creep and starter all other feed is home mixed.
4 Manure haulage is contracted out.
5 Gilts are purchased for herd replacement.
6 No weaner pigs are sold.

Farrow - Wean Pig Production Assumptions

Indicators of Productivity	
Sows	**300**
Replacements/month	**10**
Boars	**15**
Litters/Sow/Year	**2.20**
Average Weaning Age (days)	**21**
Average Born Alive per Litter	**10.80**
Percent Pre-Weaning Mortality	**10.0**
Percent Post-Weaning Mortality	**2.0**

Herd Profile	Total	/Sow	/Litter	%Mortality
Sows	300			
Replacements	10			
Boars	15			
Litters	660	2.20		
Pigs Born Alive	7,128	23.76	10.80	
Pigs Died, Pre-Weaning	713	2.38	1.08	10.0
Pigs Weaned	6,415	21.38	9.72	
Pigs Died, Post-Weaning	128	0.43	0.19	2.0
Weaner Pigs Transferred	6,287	20.96	9.53	

Feed Requirements and Costs			Purchased	Home-Mixed
Dry Sow Ration	**2.6**	kg/day	**$0.00**	$186.85 /tonne
Nursing Sow Ration	**6.0**	kg/day	**$0.00**	$240.75 /tonne
Boar Ration	**2.5**	kg/day	**$0.00**	$192.74 /tonne
Pre Starter 1	**1.3**	kg	**$1,520.00**	$0.00 /tonne
Pre Starter 2	**2.8**	kg	**$1,320.00**	$0.00 /tonne
Starter 1	**9.0**	kg	**$483.00**	$0.00 /tonne
Starter 2	**15.0**	kg	**$387.00**	$0.00 /tonne

Weaner Pig Efficiency	Pre Starter 1	Pre Starter 2	Starter 1	Starter 2	Total
Days Post-Weaning (nursery)	**7**	**10**	**17**	**18**	52
Target Starting Weight (kg)	**5.0**	**6.0**	**8.0**	**14.0**	5.0
Target Ending Weight (kg)	**6.0**	**8.0**	**14.0**	**23.0**	23.0
Feed Conversion Ratio	1.30	1.40	1.50	1.67	1.56
Average Daily Gain (kg)	0.14	0.20	0.35	0.50	0.40

Labour		
Total Hours per 7-day week	**90.0**	hours/week (including manager)
Hourly Wage (including hired manager)	**$12.00**	/hour (weighted)

Grower-Finisher Pig Production Assumptions

Livestock values are based on a Market Price for Pork of:	**$150.00**	/100 kg	**110**	Market Index
or:	$68.04	/cwt	**80**	% Dressing
Premium:	**$1.00**	/head		

Indicators of Productivity	**Grower 1**	**Grower 2**	**Finisher**	**Total**
No. of Pigs (Beginning)	6,287	6,224	6,162	--
Average Beginning Weight (kg)	**23.0**	50.0	80.0	--
Average Ending Weight (kg)	**50.0**	**80.0**	**113.0**	--
Percent Mortality	**1.00**	**1.00**	**1.00**	3.00
Days on Feed	**36**	**33**	**40**	109
Feed Conversion Ratio [1]	**2.60**	**2.90**	**3.30**	2.96
No. of Pigs (Ending)	6,224	6,162	6,100	--
Weight Gain/Pig (kg)	27.0	30.0	33.0	90.0
Feed Disappearance/Pig (kg)	70.2	87.0	108.9	266.1
Average Daily Gain (kg)	**0.750**	**0.900**	**0.830**	0.826
Average No. Pigs in Barn [2]	1,868	1,849	1,831	1,849

[1] FOOTNOTE: The Feed Conversion Ratio (FCR) in the 'Total' column is a weighted average of the other feed conversion ratios. Also note that an accurate feed conversion ratio for the grower-finisher enterprise is calculated by dividing 'Total Feed used per Year' by 'Total Gain per Year'; where 'Total Gain per Year' equals 'Total Hogs Sold' times 'Gain per Hog'. When calculated in this way, the feed conversion ratio includes feed lost through wastage and weight gain lost through death of pigs.

[2] FOOTNOTE: Assume that "Avg. No. of Pigs in Barn" equals "Pig Places".

Productivity Profile	**Total**		
Pigs transferred	6,287		
Pigs Died	187	3.00	% mortality
Pigs available for marketing	6,100		
Less light weight pig adjustment	61	**1.00**	% light weight adjustment
Pigs Sold at full market value	6,039	20.13	sold/sow
Total Days to Market	182		
Turnover (365 / days to market)	2.01		

Feed Requirements and Costs

	FCR*	**kg/pig**	**Ration Cost Purchased**	**Home-Mixed**
Grower 1	2.60	70.2	**$0.00**	$221.42 /tonne
Grower 2	2.90	87.0	**$0.00**	$203.12 /tonne
Finisher	3.30	108.9	**$0.00**	$179.49 /tonne

*** FCR = Feed Conversion Ratio (Feed:Gain)**

Labour

Total Hours per year	**45.0**	hours/week	2,340 hours/year
Wage (incl. benefits @15%)	**$12.00**	/hour (weighted)	

Capital Costs

2,000 pig places feeder barn

	Area in ft^2	Cost $/$ft^2$	Total Cost	/Sow
Buildings				
Gestation	8,370	**$17.50**	$146,475	$488.25
Farrowing/Nursing	9,000	**$19.50**	$175,500	$585.00
Feeder Barn	18,000	**$17.50**	$315,000	$1,050.00
Office, Mechanical & Loading	**1,000**	**$20.00**	$20,000	$66.67
Standby Generator			**$25,000**	$83.33
Feed Mill (building only)			**$10,000**	$33.33
Total Building Cost			**$691,975**	$2,306.58
Equipment		Cost $/$ft^2$		
Gestation		**$15.25**	$127,643	$425.48
Farrowing/Nursing		**$20.00**	$180,000	$600.00
Finishing Barn		**$11.00**	$198,000	$660.00
Fire Alarm System			**$3,000**	$10.00
Feed Mill (equipment only).			**$100,000**	$333.33
Total Equipment Cost			**$608,643**	**$2,028.81**
Total Buildings and Equipment Cost			**$1,300,618**	**$4,335.39**
Breeding Stock				
Value of Replacement Sow	$350 /sow		$105,000	$350.00
Value of Replacement Boar	$1,000 /boar		$15,000	$50.00
Total Breeding Stock Cost			**$120,000**	**$400.00**
Land Value				
Land Investment	20 acres @	$500 /acre	$10,000	$33.33
Other Costs				
Site Preparation			**$30,000**	$100.00
Manure Storage			**$23,000**	$76.67
Total Other Costs			**$53,000**	**$176.67**
Total Capital Investment			**$1,453,618**	**$4,845.39**

[1] FOOTNOTE: The number of square feet allocated for buildings and equipment are approximations. Cost per sow for buildings and equipment will vary around the province.

FOOTNOTE: 1 sq.ft. = 0.0929 sq.m; 1 sq.m.= 10.764 sq.ft.; 1 ft.= 0.3048 m

Feed Ingredient Costs

	Price ($/tonne)	Your Cost
Wheat	$149	
Barley	$120	
Corn	$155	
Soybean Meal	$465	
Canola Meal	$360	
Peas	$180	
Creep Premix	$850	
Sow Micro Premix	$3,500	
Grower Micro Premix	$2,500	
Canola Oil	$900	
Whey Powder	$800	
Herring Meal	$1,400	
Plasma	$7,500	
Limestone	$80	
Dical (16% Ca-21% P)	$455	
Salt - 96%	$100	
L-Lysine HCL	$4,500	
L-Threonine	$6,400	
D L-Methionine	$4,500	
Oats - Steam rolled	$400	
Processing Cost (Hydro, Repairs/Maintenance & Insurance)	$3.25	
Percent Weight loss due to processing	1.25	
Labour Cost	$4.00	

Feed Requirement and Cost Summary

	Amount (kg)	Price ($ /tonne)	Ration Cost ($ /tonne)	Your Cost
Sow Gestation				
Wheat	253.00	$149.00	$37.70	
Barley	539.00	$120.00	$64.68	
Canola Meal	80.00	$360.00	$28.80	
Peas	91.00	$180.00	$16.38	
Sow Micro Premix	5.00	$3,500.00	$17.50	
Limestone	14.29	$80.00	$1.14	
Dical (16% Ca-21% P)	13.13	$455.00	$5.97	
Salt - 96%	3.50	$100.00	$0.35	
L-Lysine HCL	1.08	$4,500.00	$4.86	
Total Sow Gestation:	**1,000.00 kg**		$177.38	
Adjusted For Weight Loss		1.25 %	$179.60	
Plus Processing Cost		$3.25	$182.85	
Plus Labour Cost		$4.00	**$186.85**	
Sow Lactation				
Wheat	564.00	$149.00	$84.04	
Barley	193.62	$120.00	$23.23	
Soybean Meal	196.00	$465.00	$91.14	
Sow Micro Premix	5.00	$3,500.00	$17.50	
Limestone	14.87	$80.00	$1.19	
Dical (16% Ca-21% P)	20.71	$455.00	$9.42	
Salt - 96%	5.00	$100.00	$0.50	
L-Lysine HCL	0.80	$4,500.00	$3.60	
Total Sow Lactation:	**1,000.00 kg**		**$230.62**	
Adjusted For Weight Loss		1.25 %	$233.50	
Plus Processing Cost		$3.25	$236.75	
Plus Labour Cost		$4.00	**$240.75**	
Boar Ration:				
Wheat	230.00	$149.00	$34.27	
Barley	539.00	$120.00	$64.68	
Canola Meal	102.00	$360.00	$36.72	
Peas	91.00	$180.00	$16.38	
Sow Micro Premix	5.00	$3,500.00	$17.50	
Limestone	15.00	$80.00	$1.20	
Dical (16% Ca-21% P)	13.14	$455.00	$5.98	
Salt - 96%	3.50	$100.00	$0.35	
L-Lysine HCL	1.36	$4,500.00	$6.12	
Total Boar:	**1,000.00 kg**		**$183.20**	
Adjusted For Weight Loss		1.25 %	$185.49	
Plus Processing Cost		$3.25	$188.74	
Plus Labour Cost		$4.00	**$192.74**	

	Amount (kg)	Price ($ /tonne)	Ration Cost ($ /tonne)	Your Cost
Pre Starter 1				
Corn	106.00	$155.00	$16.43	
Soybean Meal	120.00	$465.00	$55.80	
Sow Micro Premix	5.00	$3,500.00	$17.50	
Canola Oil	27.00	$900.00	$24.30	
Whey Powder	121.00	$800.00	$96.80	
Herring Meal	61.00	$1,400.00	$85.40	
Plasma	59.00	$7,500.00	$442.50	
Limestone	12.50	$80.00	$1.00	
Dical (16% Ca-21% P)	10.00	$455.00	$4.55	
Salt - 96%	3.50	$100.00	$0.35	
L-Lysine HCL	0.50	$4,500.00	$2.25	
Oats - Steam rolled	474.50	$400.00	$189.80	
Total Pre Starter 1:	**1,000.00 kg**		**$936.68**	
Adjusted For Weight Loss		1.25 %	$948.39	
Plus Processing Cost		$3.25	$951.64	
Plus Labour Cost		$4.00	**$955.64**	
Pre Starter 2				
Corn	134.50	$155.00	$20.85	
Soybean Meal	130.00	$465.00	$60.45	
Sow Micro Premix	5.00	$3,500.00	$17.50	
Canola Oil	19.00	$900.00	$17.10	
Whey Powder	125.00	$800.00	$100.00	
Herring Meal	75.00	$1,400.00	$105.00	
Limestone	12.50	$80.00	$1.00	
Dical (16% Ca-21% P)	10.00	$455.00	$4.55	
Salt - 96%	3.50	$100.00	$0.35	
L-Lysine HCL	0.50	$4,500.00	$2.25	
Oats - Steam rolled	485.00	$400.00	$194.00	
Total Pre Starter 2	**1,000.00 kg**		**$523.05**	
Adjusted For Weight Loss		1.25 %	$529.59	
Plus Processing Cost		$3.25	$532.84	
Plus Labour Cost		$4.00	**$536.84**	
Starter 1				
Corn	616.00	$155.00	$95.48	
Soybean Meal	204.50	$465.00	$95.09	
Sow Micro Premix	5.00	$3,500.00	$17.50	
Canola Oil	11.30	$900.00	$10.17	
Whey Powder	90.70	$800.00	$72.56	
Herring Meal	45.50	$1,400.00	$63.70	
Limestone	12.50	$80.00	$1.00	
Dical (16% Ca-21% P)	10.00	$455.00	$4.55	
Salt - 96%	3.50	$100.00	$0.35	
L-Lysine HCL	1.00	$4,500.00	$4.50	
Total Starter 1	**1,000.00 kg**		**$364.90**	
Adjusted For Weight Loss		1.25 %	$369.46	
Plus Processing Cost		$3.25	$372.71	
Plus Labour Cost		$4.00	**$376.71**	

	Amount (kg)	Price ($ /tonne)	Ration Cost ($ /tonne)	Your Cost
Starter 2				
Barley	186.00	$120.00	$22.32	
Corn	555.00	$155.00	$86.03	
Soybean Meal	226.60	$465.00	$105.37	
Sow Micro Premix	5.00	$3,500.00	$17.50	
Limestone	12.50	$80.00	$1.00	
Dical (16% Ca-21% P)	10.00	$455.00	$4.55	
Salt - 96%	3.50	$100.00	$0.35	
L-Lysine HCL	1.40	$4,500.00	$6.30	
Total Starter 2	**1,000.00 kg**		**$243.42**	
Adjusted For Weight Loss		1.25 %	$246.46	
Plus Processing Cost		$3.25	$249.71	
Plus Labour Cost		$4.00	**$253.71**	
Grower 1				
Wheat	532.56	$149.00	$79.35	
Barley	183.30	$120.00	$22.00	
Soybean Meal	158.80	$465.00	$73.84	
Peas	100.00	$180.00	$18.00	
Grower Micro Premix	3.00	$2,500.00	$7.50	
Limestone	12.41	$80.00	$0.99	
Dical (16% Ca-21% P)	4.85	$455.00	$2.21	
Salt - 96%	3.50	$100.00	$0.35	
L-Lysine HCL	1.36	$4,500.00	$6.12	
L-Threonine	0.09	$6,400.00	$0.58	
D L-Methionine	0.13	$4,500.00	$0.59	
Total Starter	**1,000.00 kg**		**$211.53**	
Adjusted For Weight Loss		1.25 %	$214.17	
Plus Processing Cost		$3.25	$217.42	
Plus Labour Cost		$4.00	**$221.42**	
Grower 2				
Wheat	372.4	$149.00	$55.49	
Barley	268.6	$120.00	$32.23	
Soybean Meal	45.4	$465.00	$21.10	
Canola Meal	84.4	$360.00	$30.38	
Peas	204.2	$180.00	$36.75	
Grower Micro Premix	3.0	$2,500.00	$7.50	
Limestone	11.8	$80.00	$0.94	
Dical (16% Ca-21% P)	5.4	$455.00	$2.45	
Salt - 96%	3.5	$100.00	$0.35	
L-Lysine HCL	1.36	$4,500.00	$6.12	
D L-Methionine	0.03	$4,500.00	$0.14	
Total Grower	**1,000.00 kg**		**$193.45**	
Adjusted For Weight Loss		1.25 %	$195.87	
Plus Processing Cost		$3.25	$199.12	
Plus Labour Cost		$4.00	**$203.12**	

	Amount (kg)	Price ($ /tonne)	Ration Cost ($ /tonne)	Your Cost
Finisher				
Wheat	220.04	$149.00	$32.79	
Barley	408.35	$120.00	$49.00	
Canola Meal	79.40	$360.00	$28.58	
Peas	272.23	$180.00	$49.00	
Grower Micro Premix	3.00	$2,500.00	$7.50	
Limestone	10.48	$80.00	$0.84	
Dical (16% Ca-21% P)	2.84	$455.00	$1.29	
Salt - 96%	3.50	$100.00	$0.35	
L-Threonine	0.02	$6,400.00	$0.13	
D L-Methionine	0.14	$4,500.00	$0.63	
Total Finisher	**1,000.00 kg**		**$170.11**	
Adjusted For Weight Loss		1.25 %	$172.24	
Plus Processing Cost		$3.25	$175.49	
Plus Labour Cost		$4.00	**$179.49**	

Farrow Finish Pig Production Cost Worksheet

				Your Cost
A. Operating Costs				
1. Feed Requirements and Costs				
1.01 Sow Lactation				
		21	days average weaning age	
	x	2.20	litters/sow/year	
	=	46.2	days lactation	
	x	6.0	kg ration/day	
	x	$240.75	/tonne ration	
	÷	1,000	kg/tonne	
	÷	20.13	pigs sold/sow/year	
	=	**$3.32**	**/pig sold**	
1.02 Sow Gestation				
		365	days/year	
	-	46.2	days lactation	
	=	318.8	days gestation	
	x	2.6	kg ration/day	
	x	$186.85	/tonne ration	
	÷	1,000	kg/tonne	
	÷	20.13	pigs sold/sow/year	
	=	$7.69	/pig sold	
	replacements (fed for 30days)			
		120	replacements	
	x	30	days/year	
	x	2.6	kg ration/day	
	x	$186.85	/tonne ration	
	÷	1,000	kg/tonne	
	÷	6,039.00	pigs sold/year	
	=	$0.29	/pig sold	
Total	=	**$7.98**	**/pig sold**	
1.03 Boar Ration				
		365	days	
	x	2.5	kg ration/day	
	x	$192.74	/tonne ration	
	÷	1,000	kg/tonne	
	x	15	boars	
	÷	300	sows	
	÷	20.13	pigs sold/sow/year	
	=	**$0.44**	**/pig sold**	

			Your Cost
1.04 Pre Starter 1			
	6.0	kg target sale weight	
-	5.0	kg target weaning weight	
=	1.0	kg weight gain	
x	1.3	feed conversion ratio	
=	1.3	kg ration/pig	
x	$1,520.00	/tonne of creep feed	
÷	1,000	kg/tonne	
x	23.76	pigs born alive/sow/year	
÷	20.13	pigs sold/sow/year	
=	**$2.33**	**/pig sold**	
1.05 Pre Starter 2			
	8.0	kg target sale weight	
-	6.0	kg target weaning weight	
=	2.0	kg weight gain	
x	1.4	feed conversion ratio	
=	2.8	kg ration/pig	
x	$1,320.00	/tonne starter ration #1	
÷	1,000	kg/tonne	
x	20.96	weaners transferred/sow/year	
÷	20.13	pigs sold/sow/year	
=	**$3.85**	**/pig sold**	
1.06 Starter 1			
	14.0	kg target sale weight	
-	8.0	kg target weaning weight	
=	6.0	kg weight gain	
x	1.5	feed conversion ratio	
=	9.0	kg ration/pig	
x	$483.00	/tonne starter ration #2	
÷	1,000	kg/tonne	
x	20.96	weaners transferred/sow/year	
÷	20.13	pigs sold/sow/year	
=	**$4.53**	**/pig sold**	
1.07 Starter 2			
	23.0	kg target sale weight	
-	14.0	kg target weaning weight	
=	9.0	kg weight gain	
x	1.7	feed conversion ratio	
=	15.0	kg ration/pig	
x	$387.00	/tonne starter ration #2	
÷	1,000	kg/tonne	
x	20.96	weaners transferred/sow/year	
÷	20.13	pigs sold/sow/year	
=	**$6.04**	**/pig sold**	

			Your Cost
1.08 Grower 1			
	27.0	kg weight gain/pig	
x	2.6	feed conversion ratio	
=	70.2	kg ration/pig	
x	$221.42	/tonne ration	
÷	1,000	kg/tonne	
=	**$15.54**	**/pig sold**	
1.09 Grower 2			
	30.0	kg weight gain/pig	
x	2.9	feed conversion ratio	
=	87.0	kg ration/pig	
x	$203.12	/tonne ration	
÷	1,000	kg/tonne	
=	**$17.67**	**/pig sold**	
1.10 Finisher			
	33.0	kg weight gain/pig	
x	3.3	feed conversion ratio	
=	108.9	kg ration/pig	
x	$179.49	/tonne ration	
÷	1,000	kg/tonne	
=	**$19.55**	**/pig sold**	
2. Other Operating Costs			
2.01 Veterinary Medicine & Supplies			
	$8.00	/sow/year services	
+	$25.00	/sow/year medication	
÷	20.13	pigs sold/sow/year	
=	$1.64	/pig sold	
	$1.00	/pig transferred in	
x	6,287	pigs transferred in	
÷	6,039	pigs sold	
=	$1.04	/pig sold	
=	**$2.68**	**/pig sold**	
2.02 Maintenance & Repairs			
	$1,300,618	building & equipment	
x	0.55	%/sow/year repair & maintenance	
÷	6,039	pigs sold	
=	**$1.18**	**/pig sold**	
2.03 Hydro & Propane/Natural Gas			
	$9,300	propane/natural gas	
x	$10,258	hydro	
÷	6,039	pigs sold	
=	**$3.24**	**/pig sold**	

			Your Cost
2.04 Insurance			
	$1,300,618	buildings & equipment	
x	$0.78	rate/$100	
÷	100	/$100 capital invested	
÷	6,039	pigs sold	
=	$1.68	/pig sold	
	$120,000	breeding stock	
+	$277,420	market hogs value	
÷	$0.88	/$100 capital invested	
÷	6,039	pigs sold	
=	$0.58	/pig sold	
	$1,200.00	business interruption coverage/sow	
x	300	sows	
x	$0.78	/$100 capital invested	
÷	6,039	pigs sold	
=	$0.46	/pig sold	
=	**$2.72**	**/pig sold**	
2.05 Manure Costs			
Haulage	63.0	litres/sow/day	
x	$0.0021	/litres haulage rate	
x	365	days	
÷	20.13	pigs sold/sow/year	
=	$2.40	/pig sold	
Odour control	$4,300	total costs	
÷	6,039	pigs sold	
=	$0.71	/pig sold	
Total =	**$3.11**	**/pig sold**	
2.06 Office Supplies			
	$2.00	$/sow	
÷	20.13	pigs sold/sow/year	
=	**$0.10**	**/pig sold**	
2.07 Marketing & Transportation			
	$0.00	trucking in	
+	$2.80	trucking out	
+	$0.80	council levy	
+	$0.04	grading charge	
+	$0.25	insurance	
÷	$0.00	brokerage fee	
=	**$3.89**	**/pig sold**	

			Your Cost
2.08 Sow Replacement			
	180.0	kg/sow (cull weight)	
x	$84.00	/100 kg live	
=	$151.20	/sow value of cull	
	$350.00	/sow value of replacement	
-	$151.20	/sow value of cull	
=	$198.80	net replacement cost	
x	40.0	percent sow culling rate	
÷	20.13	pigs sold/sow/year	
=	**$3.95**	**/pig sold**	
2.09 Boar Replacement			
	225.0	kg/boar (cull weight)	
x	$60.00	/100 kg live	
=	$135.00	/boar value of cull	
	$1,000	/boar value of replacement	
-	$135.00	/boar value of cull	
=	$865.00	net replacement cost	
x	50.0	% culling rate	
x	15	number of boars	
÷	300	number of sows	
÷	20.13	pigs sold/sow/year	
=	**$1.07**	**/pig sold**	
2.10 Property Taxes			
	$7,000	total taxes	
÷	6,039	pigs sold	
=	**$1.16**	**/pig sold**	

2.11 Interest on Operating Cost:

Sub-total Operating Cost x days to market x interest
2 365

	$104.36	subtotal operating	
÷	2	average	
x	182	days farrow to farrow	
÷	365	days per year	
x	6.0	% operating interest rate	
=	**$1.56**	**/pig sold**	

			Your Cost
B. Fixed Costs			
3. Depreciation:	**Original cost - Salvage Value / Useful Life**		
3.01 Buildings			
	$631,643	building cost (including earthen manure storage)	
-	$69,198	salvage value (building only)	
÷	20	years useful life	
÷	6,039	pigs sold	
=	**$4.66**	**/pig sold**	
3.02 Equipment			
	$608,643	equipment cost	
-	$60,864	salvage value	
÷	10	years useful life	
÷	6,039	pigs sold	
=	**$9.07**	**/pig sold**	
4. Investment:	**(Original Cost + Salvage Value) / 2 X % Investment Interest**		
4.01 Land Cost			
	$10,000	land investment	
+	$30,000	site preparation	
X	4.0	% investment rate	
÷	6,039	pigs marketed	
=	**$0.26**	**/pig sold**	
4.02 Buildings			
	$714,975	building cost (including earthen manure storage)	
+	$69,198	salvage value (building only)	
÷	2	average	
X	4.0	% investment rate	
÷	6,039	pigs sold	
=	**$2.60**	**/pig sold**	
4.03 Equipment			
	$608,643	equipment cost/sow	
+	$60,864	salvage value/sow	
÷	2	average	
X	4.0	% investment rate	
÷	6,039	pigs sold	
=	**$2.22**	**/pig sold**	

			Your Cost
4.04 Breeding Stock			
	$120,000	value of breeding stock	
x	4.0	% investment rate	
÷	6,039	pigs sold	
=	**$0.79**	**/pig sold**	
C. Labour			
Farrow Wean	90.0	hours/week	
x	52	weeks/year	
x	$12.00	/hour	
÷	300	sows	
÷	20.13	pigs sold/sow/year	
=	**$9.30**	**/pig sold**	
Grower Finish	2,340	total hours/year	
x	$12.00	/hour	
÷	6,039	pigs sold/sow/year	
=	**$4.65**	**/pig sold**	
Total =	**$13.95**	**/pig sold**	

Summary of Purchased Feeds Used

Farrow finish 300 sows
Total sold 6,039 pigs sold

	Total per Year (tonnes)	Total per Month (tonnes)	Total per Pig (kgs)	Total per Pig (lbs)
Dry Sow Ration	0	0.0	0.0	0.0
Nursing Sow Ration	0	0.0	0.0	0.0
Boar Ration	0	0.0	0.0	0.0
Pre Starter 1	8	0.7	1.4	3.0
Pre Starter 2	18	1.5	3.0	6.6
Starter 1	58	4.8	9.6	21.1
Starter 2	96	8.0	15.9	35.1
Grower 1	0	0.0	0.0	0.0
Grower 2	0	0.0	0.0	0.0
Finisher	0	0.0	0.0	0.0
Total	**180.3**	**15.0**	**29.9**	**65.8**

Summary of Home Mixed Feed Ingredients Used

	Total per Year (tonnes)	Total per Month (tonnes)	Total per Pig (kgs)	Total per Pig (lbs)
Wheat	704.4	58.7	116.6	257.2
Barley	665.3	55.4	110.2	242.9
Corn	0.0	0.0	0.0	0.0
Soybean Meal	111.2	9.3	18.4	40.6
Canola Meal	121.9	10.2	20.2	44.5
Peas	366.0	30.5	60.6	133.6
Creep Premix	0.0	0.0	0.0	0.0
Sow Micro Premix	1.7	0.1	0.3	0.6
Grower Micro Premix	5.0	0.4	0.8	1.8
Canola Oil	0.0	0.0	0.0	0.0
Whey Powder	0.0	0.0	0.0	0.0
Herring Meal	0.0	0.0	0.0	0.0
Plasma	0.0	0.0	0.0	0.0
Limestone	23.9	2.0	4.0	8.7
Dical (16% Ca-21% P)	12.1	1.0	2.0	4.4
Salt - 96%	7.0	0.6	1.2	2.6
L-Lysine HCL	1.6	0.1	0.3	0.6
L-Threonine	0.0	0.0	0.0	0.0
D L-Methionine	0.0	0.0	0.0	0.0
Oats - Steam rolled	0.0	0.0	0.0	0.0
Total Ration Used	**2,020.2**	**168.3**	**334.5**	**737.5**
Total	**2,200.5**	**183.4**	**364.4**	**803.3**

For further information contact your local Manitoba Agriculture, Food and Rural Initiatives office.

Prepared by:
Peter Blawat, Farm Management Specialist
Ian Seddon, Swine Specialist
Gary Plohman, Ag Engineer
Grant Palmer, Farm Management Specialist
John Maltman, Swine Specialist